BRUHATH BANGALORE MAHANAGARA PALIKE

DASRAHALLI ZONE

Name of Work:- Maintenance of Borewells in Ward No.12 Shettyhalli, Shettyhalli Sub Division.

		Est .Cost Rs.45.00 Lakhs			
.L No	Particulars	Unit	Qty	Rate	Amount
	PART-A				
A	MOTOR REWINDING				
1	Repairs to Motor Rewinding of submersible pumpsets with copper insulation wire suitable guage as per ISI specification with guarantee of 6 months, Above 5H.P Upto 10.H.P add Rs 192.50 / per Every .5HP, Above 10 H.P Upto 20 HP Add 175 per every .5 HP (BWSSB SR 14-15 P-58 I-A)				
	10.00 HP (BWSSB SR 14-15 P-58 I-A)	No	40.00	4785.00	191400.00
	12.50 H.P (BWSSB SR 14-15 P-58 I-A)	No	20.00	5885.00	117700.00
	15.00 H.P (BWSSB SR 14-15 P-58 I-A)	No	20.00	6985.00	139700.00
B	**Repair of Pump parts**		**80.00**		
	Replacement of Pump parts the following main components of submersible pump setss requiring replacement (BWSSB SR 14-15 P-58 I B1 to 17)				
2	Pump bowls	No	200.00	308.00	61600.00
3	Intermediate piece (I.P)with 1.P. Leaded Bronze Bush	No	30.00	715.00	21450.00
4	Oil seal	No	70.00	121.00	8470.00
5	Oil seal steel bush	No	40.00	132.00	5280.00
6	Guide Vane	No	120.00	192.50	23100.00
7	Impeller (Shell moulded with aluminium &bronze)	No	120.00	264.00	31680.00
8	Discharge outlet (D.O) Bearing D.O Steel Bush	No	40.00	522.50	20900.00
9	D.O Bearing	No	40.00	93.50	3740.00
10	Steel bearing Bush (D.O Steel Bush)	No	40.00	176.00	7040.00
11	Alen Screw	No	40.00	77.00	3080.00
12	Pump shoft made out of stainless steel centreless ground with key (up to 8 stages)+ Rs.40/- extra 20 stages	No	20.00	660.00	13200.00
13	Pump key (stainless steel)	No	80.00	121.00	9680.00
14	pump coupling (stainless steel)	No	35.00	341.00	11935.00
15	Non-return valve (NRV) assembly complete with rubber 'O' ring	Each	40.00	572.00	22880.00
16	Cable Guad	Each	40.00	165.00	6600.00
17	Strainer	Each	40.00	192.50	7700.00
18	Brass Filter	Each	40.00	121.00	4840.00
19	Labour charges (Over hauling only)	Each	80.00	550.00	44000.00
C	**Replacement of Motor parts**				
20	Upper Flange	Each	30.00	330.00	9900.00
21	Lower Housing	Each	30.00	539.00	16170.00

22	Lower Flange	Each	30.00	407.00	12210.00
23	ck Ring	Each	30.00	88.00	2640.00
24	Carbon Housing	Each	30.00	407.00	12210.00
25	Thrust bearing block assembly complete with segment bearing pad	Each	50.00	550.00	27500.00
26	Tip Carbon / Ferrodod Padding	Each	20.00	1760.00	35200.00
27	Stud and Nuts	Each	80.00	88.00	7040.00
28	Bearing (Gun Metal) Centrifugal Cas Aluminium Bronze, Bearing Bush	Each	100.00	407.00	40700.00
29	Circlips	Each	30.00	49.50	1485.00
30	Motor base with pin	Each	30.00	407.00	12210.00
31	Transportation of pumping machinaries	Each	160.00	605.00	96800.00
32	Labour charges for lifting of non functioning submersible pump set along with cable and GI pipes(BWSSB SR 14-15 P-558 I-1(i))	Each	600.00	109.00	65400.00
33	Labour charges for Erection of new / repaired submersible pump set along with G.I. pipes (50/32mm), S.M cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transporation for 3 HP to 20 HP and for all depths (BWSSB SR 14-15 P-558 1-3)	Each	800.00	88.00	70400.00
34	Supply and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to cable 3 class 5 of IS 8130-1984 and latest amendments of IS 694 / 1990 and virgin grade PVC insulation and sheathed suitable for working voltage up to 1100 volts (BWSSB SR 14-15 P-529, I-30 c)	Rmt	2450.00	159.50	390775.00
35	Fabricating Supplying and Mounting MS Box Made out 14 SWG Suitable For Floor/ Wall Mounting Fully Weather Proof With Provision For Better Heat Dissipation, Provided With Hinged Front Cover, Equipped With Tamper Proof Locking Arrangements, With Suitable Size Clamps With Necessary Cable Entry Pipe With Gland and Box Should be Finished With 2 Coats Of red Oxide Primer Paint And Finally Finished With Approved Colour Enameled Metal Pain Etc, Complete, BWSSB S.R -2012-13, Page No:403, Item No39(a) D ,1200 X800X2=1920000, 800X300X2=480000, 300X400/2=350X1200X840000 =3240000 /100=32400 SQCM X0.39=12636	Sq.Cm	23.00	12320.00	283360.00
36	Suplying and fixing angle iron frame work fabricated out of MS angle iron and MS flat Bolts , Washers etc and painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm (BWSSB SR 14-15 P-524 I-38 (a) 4 X 40 Nos	No	23.00	231.00	5313.00
37	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered incerted wooden plugs screws etc F) 20" x 20" x 2.5" (BWSSB SR 14-15 P-515 I-2 (F)	Each	23.00	285.00	6555.00

38	Supplying and fixing miniature circuit breaker on existing MCB distribution board using necessary fixing materials and wiring complete as per required (BWSSB SR 14-15 P-520 I- 13(f)(a)) 40 to 63 amps.	No	50.00	1897.50	94875.00
39	Supplying and fixing one of the fuse cutouts having porcelain base approved quality on the existing wooden block and wiring complete.(BWSSB SR 14-15 P-515 I-3(C)) 63 amps 3x4	No	150.00	231.00	34650.00
40	Supplying and delivery at site brand new texmo / innoval / Lubi / Sabar / Atalanta / Calamal make suitable for vertical installation in 150mm dia borewell comprising of single stage of multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction casing suction strainers sand guard Non return value etc., complete. The pump and motor shall form an integral unit with all the required fittings 15.00 HP 30 stage , Item No: 33, Page No:XXXXIII, PWD SR-2016-17	No	20.00	70600.00	1412000.00
41	Supplying of LTUG Cable having aluminium conductor PVC insulated sheathed galvanized steel wire/ steel tape armored cable with PVC outer sheathing 1.1KV class conforming IS 1554 -PVC Cable)(BWSSB SR 14-15 P-547 I- 10(d)	Rmtr	300.00	165.00	49500.00
42	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (BWSSB SR 14-15 P-548 ,I 12(b))	Cum	108.00	55.00	5940.00
43	Labour charges for laying 1.1KV class UG cable when supplied departmentally/agency in existing trench GI pipe/stoneware pipe/on wall/on pole as required. (BWSSB SR 14-15 P- 547 ,I 11(a))	Rmtr	360.00	5.50	1980.00
44	Supplying Fully Automatic Star- Delta Starter Unit Push Button Type With Suitable Wires 3 Contractors, One Adjustable Thermal Timer Mounted on a Common Base Plate held in Steel Enclosure For Use on 400/440 Volts 3 Phase and Wired after Fixing to the Exisiting Wooden Board For Motor, PRE Electrical SR-2014-15, Page No-44 Item No-6(2) 12.50 H.P	Each	8.00	6583.00	52664.00
45	Supplying and fixing single phase preventer PWD Electrical SR 2010-11 (P.14 , Sl. No.9)	Each	30.00	735.00	22050.00
46	Supplying fixing and wiring 0 to 600 Volts 96 x 96mm AC voltmeter - PWD Electrical SR 2010-11 (P38, Sl. No.16)	Each	30.00	430.00	12900.00
47	Supplying fixing and wiring 0 to 100 Amps Direct Reading AC analog Ammeter - PWD Electrical SR 2010-11 (P 39 Sl. No.19)	Each	30.00	495.00	14850.00
48	Supplying, fixing and wiring rotary selector switch suitable for ammeter - PWD Electrical SR 2010-11 (P39, Sl. No.21)	Each	30.00	430.00	12900.00
49	Supplying, fixing and wiring rotary selector switch suitable for Voltmeter - PWD Electrical Sr 2010-11 (P39, Sl. No.22)	Each	30.00	245.00	7350.00

50	Supplying and fixing for LED type panel board indicating lamp with - 220 V AC 50 Hz 12/24v DC a) Group A) PWD Electrical SR 2010-11 (P.40 Sl. No.34)	Each	30.00	430.00	12900.00
51	Supplying and fixing of 4 pole power contactor PWD Electrical SR 2010-11 (P.34 Sl. No.8) 25 Amps	Each	30.00	925.00	27750.00
52	KSRB 13-7.2.4 Providing and fixing in position 50mm nominal bore non-return valve Horizontal type of approved make including cost of all materials labour and HOM of equipments with all leads complete as per specification specification No.KBS 13.2.10/13.13(P.82/1.12.62 PW.P & IWTD SR 2010-2012)	Nos	20.00	1051.00	21020.00
53	Supllying and fixing 50mm GL Union, PWD SR 2015-16Page No:XXXVII, GI Fittings	Nos	20.00	223.70	4474.00
54	Supllying and fixing 50mm GI Elbow PWD SR 2015-16Page No:XXXVII, GI Fittings	Nos	20.00	111.80	2236.00
55	Supllying and fixing 50mm GI Nipple PWD SR 2015-16Page No:XXXVII, GI Fittings	Nos	20.00	104.30	2086.00
56	Supllying and fixing 50mm GI Collars CE(M)BWSSB, Letter No. BWSSB/CE(M)ACE(M)-IITA-08-9194/2008-09 Dated 21.01.2010)	Nos	60.00	125.00	7500.00
57	Supplying and fixing 50 mm GI pipes 'C' class heavy duty for erection of submersible pumpset (As per BWSSB Store Issued Rate)	Mtrs	150.00	402.75	60412.50
58	Supplying and fixing gunmetal gate valve 50mm nominal borePWD SR 2015-16 item No:673, Page No:XXIII	Nos	20.00	1600.00	32000.00
59	Cleaning of borewells including yield testing of borewell either using slow or fasr Rig for more than 2 hours at the tinal depth with a minimum working of 2 hours continuously with air compressor or suitable pump as per specification. Including the cost of transportation charges crew charges, cost of consumables etc., complete BWSSB SR 2014-15 (P.55 I.5)	Each	3.00	10450.00	31350.00
60	Logging / Scanning of borewell at any continously with the help of logger unit using including the cost of transportation charges crew charges. Stationary charges and cost of consumables etc., BWSSB SR 2014-15 (P.55 I.7)	Each	3.00	1320.00	3960.00
61	Yield Testing of Borewell at finl depth with a minmum of 10 hours continously with the help of Pump Testing Unit including the cost of transportation charges crew charges and cost of consumables BWSSB SR 2014-15 P.55 I.9	Each	3.00	7150.00	21450.00
62	Fishing of Power from the borewell including the cost of labour materials with all lead and lift etc., complete BWSSB SR 2014-15 (P.57 I . 23)	Each	3.00	4620.00	13860.00
63	Old GI pipe threading and transportation charges Rs.27 Per Mtr = 6.00 Mtrs x 27/- (PWD SR 11-12 Page 18, 3.11.6)	Each	180.00	162.00	29160.00

			Sub Total		3843660.50
8	Add GST & 12 %				
					461239.26
9	Add TP Charges @ 5 %				
					192183.03
10	Miscellaneous and unforeseen charges				
				L.S	2917.21
			Grand Total		4500000.00

(Rupees Forty Five Lakhs Only)

CERTIFICATE

1) The work spot has been inspected and the work found to be necessary
2) The Estimate is prepared as per the PWD SR 2016-17 And BWSSB S.R 2014-15
3) The provision made in estimate are inadequated and essential
4) The area comes under BBMP limits

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ನಂ. CE/02/TS/1124/18 ದಿನಾಂಕ : 04/02/2019
ರೂ. 45.00 Lakhs/- (Rs. Fourty five Lakhs only)
ಗಳ ಮೊತ್ತಕ್ಕೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ADMINISTRATIVELY SANCTIONED FOR
(Rupees 45/- lakhs
Rs. Fourty five lakhs only)
Under the Head of Account P-1771
Registered as no EE(D.D.)/AS/185/2020-21 Subject
contained in Enclosed Memo
EE/DD/AS/185/2020-21 15.2.2020
Exe. Engg
DASARAHALLI, BBMP

ADMINISTRATIVELY SANCTIONED FOR
(Rupees 45/- Lakhs
Rs. Fourty five lakhs only)
Under the Head of Account P-1771
Registered as no EE(D.D.)/AS/185/2020-21 Subject
to conditions contained in Enclosed Memo
No EE/DD/AS/185/20-21 Dt. 15.2.2020
JE/AE.
Exe. Engg
(DASARAHALLI) BBMP

15/2/2019